Pi Skyline

Kit contains:

- watercolor set
- graph paper
- sheet of cardstock

You will need: coloring supplies, scissors, glue, water, and paper towels.

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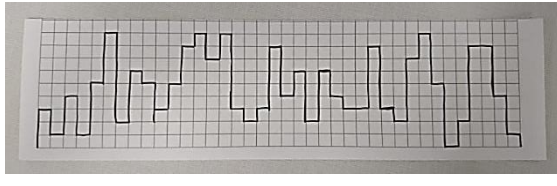
INSTRUCTIONS

Step 1. Use your water-colors to paint a sky on the cardstock. Set aside to dry. If your paper curls, flatten with heavy objects.

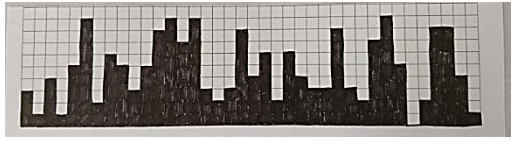
Step 2. Outline the first digits of pi (π) on the graph paper. 3 is a column 3 units tall; 1 is a column 1 unit tall; 4 is 4 units tall; and so on.



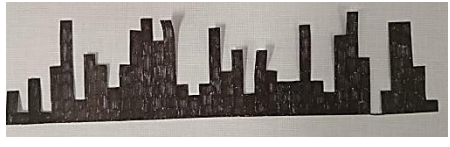
This is how π begins...

3.14159265358979323846264338327
95028841971693993751058209749...

Step 3. Color in your outline to create a pi skyline full of pi-scrapers.



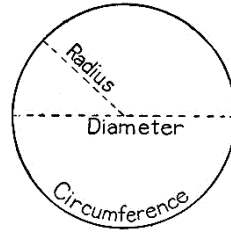
Step 4. Cut out your pi skyline.



Step 5. Glue your skyline full of pi-scrapers to your watercolor sky.

Happy Pi Day!
(March 14 or 3.14)

LET'S TALK MATH!



The distance between the center and any point on that circle is called the **radius**. If you extend the radius through center until it thwacks into the other side of the circle, you get the **diameter**. If the radius has length **r**, then the diameter is **2r**. The distance around the circle is called the **circumference**. The circumference has length 2 x pi (π) x radius or **2πr**.

The number π is irrational, its decimal part does not end or repeat. It has a value of about 3.14159.... However, when playing with math, much of the time you can keep the constant π as is.

Example: What's the circumference of a circle with radius 6? **2πr = 2 x π x 6 = 12π**

For a brief history of pi (π), check out this article from the Exploratorium:
https://www.exploratorium.edu/pi/history-of-pi